



- Hy-Lok 3/8” Stainless Steel Housing
With Internal 100 Micron Filter Element

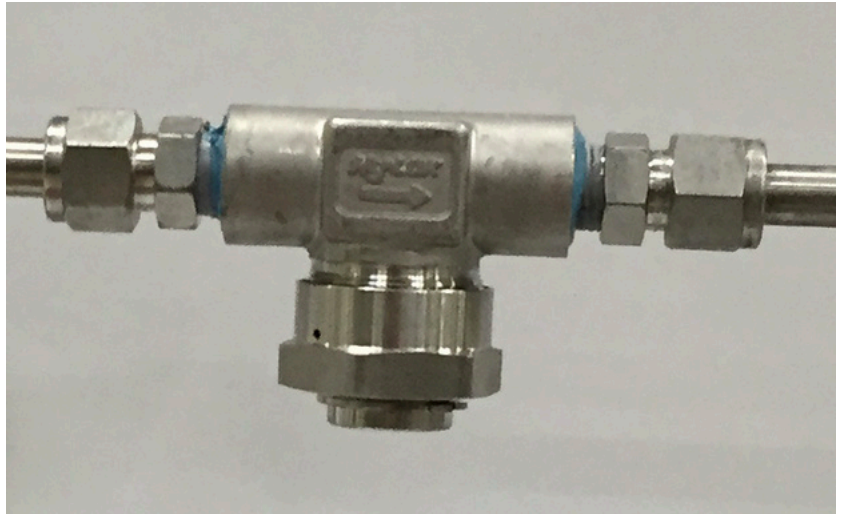
• Hylok High Pressure Stainless Steel In-line 100 Micron “T” Filter

The Hy-Lok stainless steel inline “T” filter is plumbed into the outlet high pressure line of the pump to each zone.

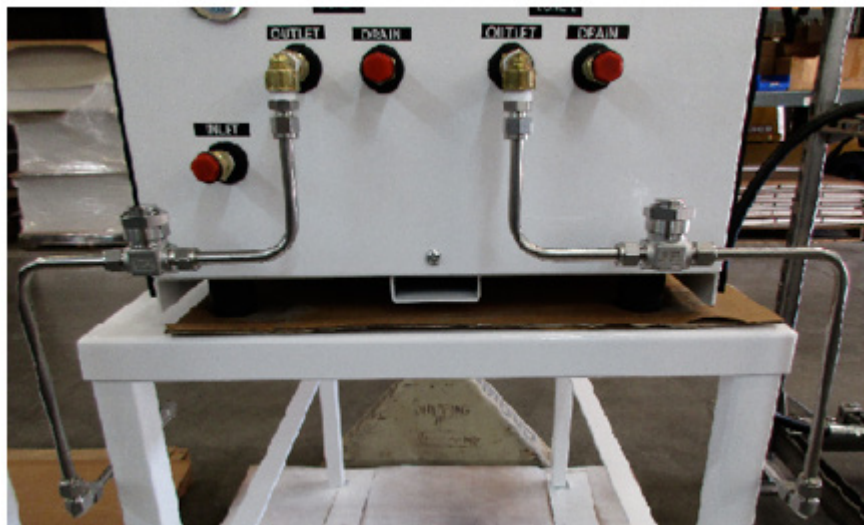
The purpose of the filter is to catch post pump fines produced as the normal by-product of long term pump operation.

Since 2016, we now include 5 micron filters with each nozzle. Systems produced before 2016 include the HY-Lok 100 micron filter. Since 2016, we may include or exclude the Hy-Lok filter depending upon the requirements of each project. In all cases now, the 5 micron nozzle filter will perform the main task of preserving proper nozzle atomization and protecting against nozzle orifice blockage.

All filters should be inspected once per year. If atomization of nozzles does not appear consistent with normal operation, all filters in the high pressure line should be checked. See Hylok pdf in reference section for details.



Part #	Description
FTH-4T-100-S316	FT SERIES FILTER, 1/4” T ENDS 100 MICRON
FTH-6T-100-S316	FT SERIES FILTER, 3/8” T ENDS 100 MICRON
FTH-8T-100-S316	FT SERIES FILTER, 1/2” T ENDS 100 MICRON
FTSE-4-100	100 MICRON FILTER ELEMENT
KIT-FT-SPARE-100-S316	REBUILD KIT FOR FT SERIES, 100 MICRON FILTER ELEMENT, SEAT PACKING & SEAL



Hylok High Pressure Stainless Steel In-line 100 Micron “T” Filters shown installed on a two zone pump – located on the outlet high pressure line of the pump. Each line feeding a zone will have one filter per line.



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Reference: Hylok HP Tee Filter

Hy-Lok FT Series

Micron Tee Filters



Catalog No. H-F100
Jun. 2003

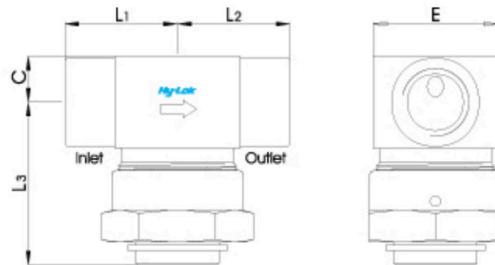
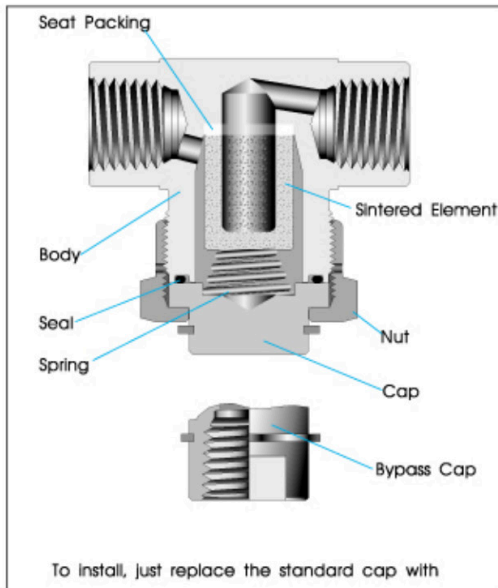


Table of Dimensions

Basic Part No.	Orifice	End Connections		Dimensions				
		Inlet & Outlet	L ₁	L ₂	L ₃	C	E	
H -4T-		1/4" Hy-Lok	33.0	33.0				
H -6T-		3/8" Hy-Lok	36.2	36.2				
H -8T-		1/2" Hy-Lok	38.7	38.7				
FT F -2N-	4.4	1/8" Female NPT	25.0	25.0	38.8	11.0	28.5	
M -4N-		1/4" Male NPT	25.5	25.5				
F -4N-		1/4" Female NPT	27.0	27.0				
F -6N-		3/8" Female NPT			41.0	12.7		
F -8N-		1/2" Female NPT	31.0	31.0	44.0	15.8		31.75

All dimensions are in millimeters.

Features

- SS316 body material as standard
- Replacement of filter elements with body in line
- Compact and robust integral union bonnet design
- Particle trapping for clean fluid

Technical Data

- **Maximum Operating Pressure:**
6000 psig @ 70°F(21°C) for Stainless Steel
3000 psig @ 70°F(21°C) for Brass
- **Operating Temperature:** -60°F to 400°F (-51°C to 204°C)
- **Effective Filtration Area:**
1.73 sq. in. (0.0011 sq. meter) for all sizes.

Materials of Construction

Description	Material / ASTM Specification	
Body	SS 316 / A479	Brass / B16
Cap		
Bypass Cap		
Nut		
Sintered Element	316 Stainless Steel	
Seat Packing	PTFE	
Seal	Viton	
Spring	SS 302	

Filter Element and Cv

Element Micron Rating	Filtered Particle Size	Cv
1	1 micron	0.01
10	10 micron	0.02
50	50 micron	0.11
100	100 micron	0.30
150	150 micron	0.42

Operation and Filter Replacement

The filter element, which is made of sintered stainless steel, is porous and has lots of tiny holes. The particles bigger than the holes are not allowed to pass through, hence clean fluid. After certain period, the holes may be blocked by particles and pressure drop will increase. This depends upon the total flow through elements and cleanliness of upstream flow. The element needs to be replaced for clean fluid with minimum pressure drop.



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Hy-Lok Tee Filters

FT Series

How to Replace the Element

1. Bleed the line to remove system pressure.
2. Unscrew the nut while holding the body steady with back-up wrench.
3. Remove the nut, cap, spring, and seal all together.
4. Remove the element out of the body and pull out the seat packing with care. It is recommended to replace the seat packing and seal at the same time.
5. Clean metal parts if necessary.
6. Insert new element into tapered bore with smooth faced tool until it seats firmly.
7. Put the seal back in place.
8. Place the spring on the cap and retighten the nut.

Bypass Cap

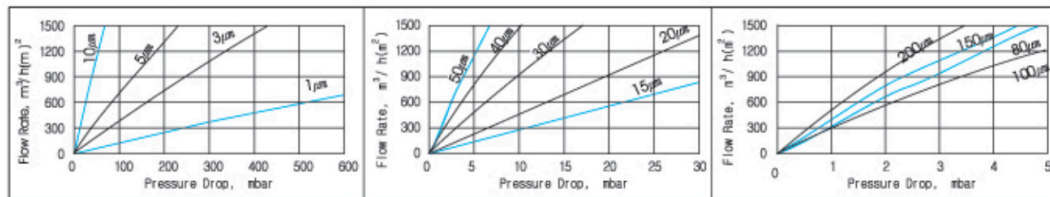
For sampling and purging, bypass cap is available with 1/4" female NPT threaded port.

Spares

For maintenance and changeover to bypass, the following spares are available.

Part No.	Description	Qty / Pack
KFT - F	Filter	1 pc
KFT - P	Seat Packing	1 pc
KFT - S	Seal	1 pc
KFT - B	Bypass Cap	1 pc

Pressure Drop vs Flow Rate of Air



Please note the above Flow Rate is elements' co-efficient in cubic meters per hour per square meter. To get the flow rate of FT series filter, find the flow rate in the graph and then multiply it with effective filtration area on previous page.

Ordering Information

FT Filter Type Designator
F End Connection Designator

- M : Both End Male Pipe Thread
- F : Both End Female Pipe Thread
- H : Both End Hy-Lok Tube Fitting

B Bypass Cap Designator*

- Nil : Without(Standard)
- B : With

4N Size Designator

- NPT (ISO/BSP)

10 Filter Element Designator

- 1 : 1 micron
- 10 : 10 micron
- 50 : 50 micron
- 100 : 100 micron
- 150 : 150 micron

S316 Body Material Designator

- S316 : 316 Stainless Steel
- BRAS : Brass

Thread(In.)	1/8	1/4	3/8	1/2	O.D.(In)	1/4	3/8	1/2
Designator	2N(R)	4N(R)	6N(R)	8N(R)	Designator	4T	6T	8T

Note * : No designator is required for standard e.g. FTF-4N-10-S316

SAFETY in VALVE SELECTION

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

QUALITY SYSTEM CERTIFICATES



TYPE APPROVALS (for Hy-Lok Tube Fittings)



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